

CoolLED

LED DRIVERS

CLK33 Analog UNI Programmable

Up to 33W

Output current settable up to 1050mA

CoolLED drivers provide a high performance solution for powering LEDs from a mains supply.

Linear Analog dimming from conventional 0-10V dimmer. Ability to dim to 5% of maximum output current & 1% of maximum output current using the low dim (LD) option.

DTO feature allows the driver to soft turn off if the 1-10V signal goes below 0.5V.

Programmable in 1% increments of 1050mA with a PC/ tablet and programming device. Programming takes less than 1 second.

The power factor corrected, Class II (B & C style), Class I (BF style) driver has a fully isolated, Class 2 output delivering up to 33W of power.

All CoolLED drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in Integral (B), Bottom Feed (BF) & Cable Clamp (C).

CoolLED drivers are open and short-circuit protected and have self resetting over temperature trip.



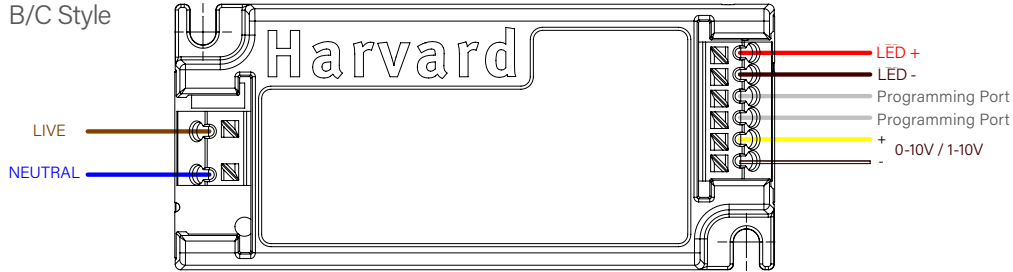
Product Description

- Mains input voltage 120 - 277V
- Analog 0/1-10V Dimming (100-1% LD Option / 100-5% Standard Option)
- Programmable output current from 100mA to 1050mA
- Driver programs in under 1 second
- Power factor corrected (0.95)
- Self resetting thermal trip
- Double insulated - Class II - B & C style / Class I - BF style
- Surge protection up to 3kV
- Up to 85% efficient
- SELV Output
- Also benefits from Hot Plug protection

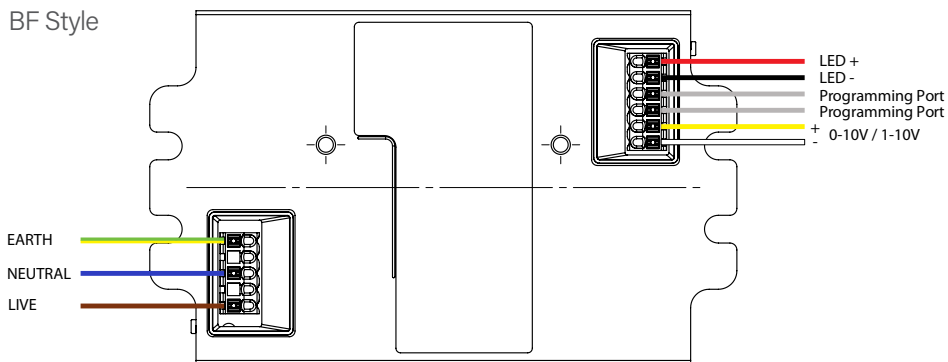


## Wiring diagram

B/C Style



BF Style



## Technical Specification

Mains input voltage	120 - 277V ac rms
Mains frequency	47 - 63Hz
Mains surge protection	4kV common-mode 2kV differential
Input-output isolation	3kV ac rms
Humidity	85% max non-condensing
Thermal trip	110°C Internal self-resetting
Ambient temperature range	-25°C to 50°C
Dimming range	Standard - 100% to 5% / Low Dim - 100% to 1% (Lowest recommended upper limit is 350mA to allow for successful dimming)
Terminal blocks	Push wire terminals
Enclosure	B & C Style - White polycarbonate UL94-V0 rated / BF Style - Unpainted steel enclosure
Wire size	16-24 AWG / 0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>

Case Style	Dimensions	Weight	Box Quantity
B - Integral	97mm x 43mm x 30mm	152g	55
BF - Bottom Feed	122mm x 75mm x 34mm	242g	TBC
C - Cable Clamps	141mm x 43mm x 30mm	166g	55

Tolerance: + or - 0.3mm



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## Variants

Part number	Current	LED String Voltage	Max. Tc Temperature	Output power range	Power Factor at full load	Efficiency at full load	Dimming Range
CLK33-1050A-PROG-UNI-B-PUSH	1050mA +/-5%	10.5V to 31.5V (48V @ <700mA)	85°C	11 - 33W	>0.95 @120V >0.90 @277V	85% typical	100 - 5%
*CLK33-1050A-PROG-UNI-BF-PUSH							
CLK33-1050A-PROG-UNI-C-PUSH							
CLK33-1050A-PROG-UNI-B-LD-PUSH	1050mA +/-5%	16V to 31.5V (48V @ <700mA)	85°C	11 - 33W	>0.95 @120V >0.90 @277V	85% typical	100 - 1%
*CLK33-1050A-PROG-UNI-BF-LD-PUSH							
CLK33-1050A-PROG-UNI-C-LD-PUSH							
CLK33-1050A-PROG-UNI-B/C-DTO-PUSH	1050mA +/-5%	16V to 31.5V (48V @ <700mA)	85°C	11 - 33W	>0.95 @120V >0.90 @277V	85% typical	** 100 - 1%

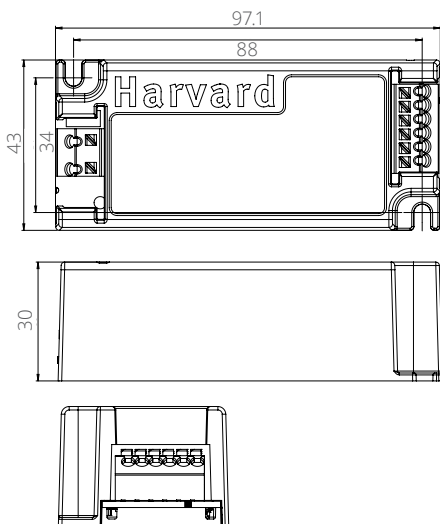
\*BF Style - Coming soon

\*\* 100 - 0% when DTO feature is enabled

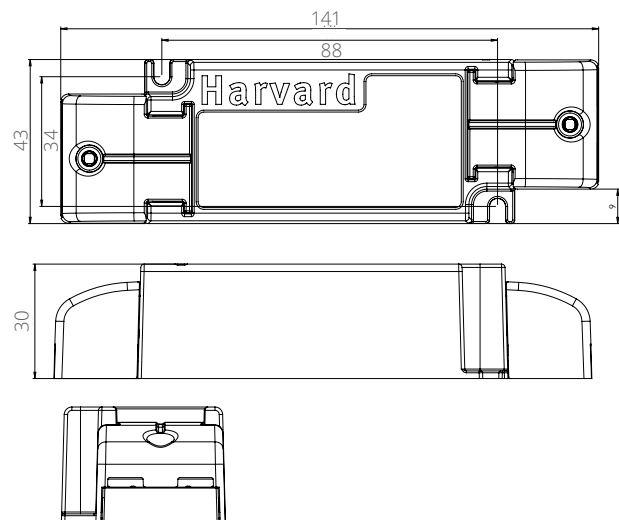
Variants not suitable for sale in the EU

## Dimensions

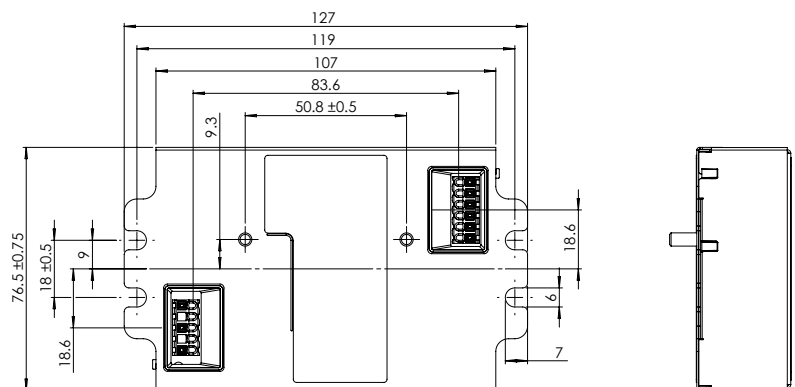
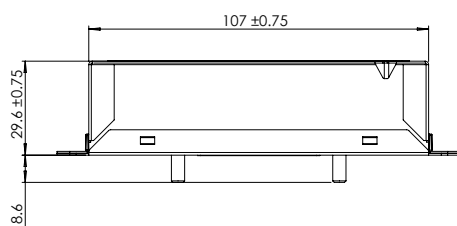
## B Style



## C Style



## BF Style



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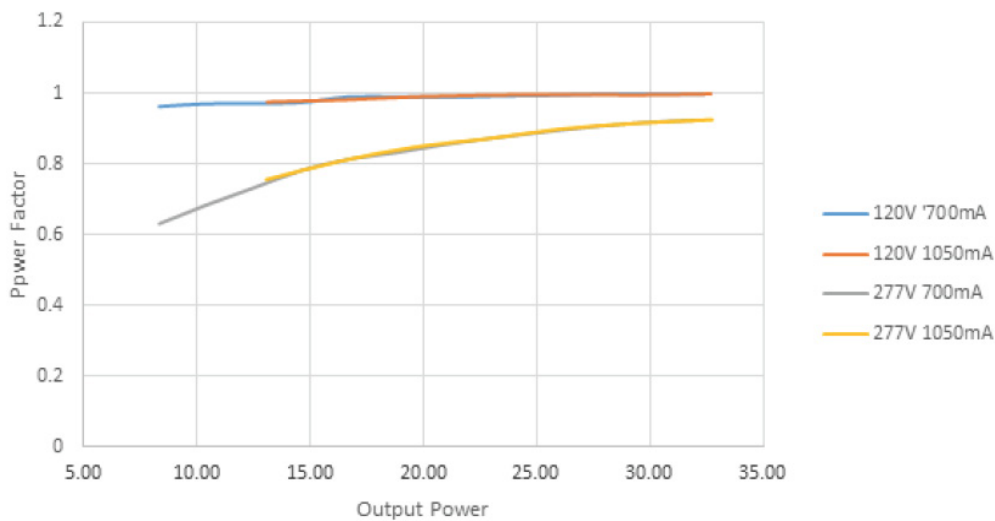
## Compliance

Approval	Standards
UL	US CLASS 2, LED DRIVER CLASS 2, UL8750, UL1310 CSA C22.2 No. 250.13-14, cURus E337790

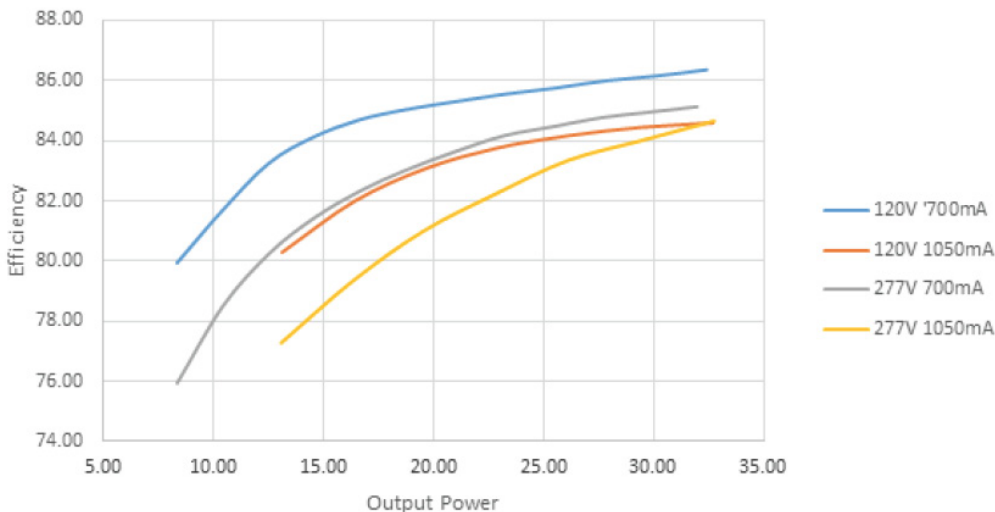
## 0-10V Dimming Control

To maintain SELV isolation of the driver output the 0-10V dimming controller and network should have reinforced or double insulation from the mains supply.

## Power Factor Vs Output Power



## Efficiency Vs Output Power



### PLEASE NOTE

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